

## Recombinant Human IL-4 (E. coli)

Catalog # EPT139

**Expression Host** E.coli

**DESCRIPTION** Recombinant Human Interleukin-4 is produced by our

E.coli expression system and the target gene encoding

His25-Ser153 is expressed.

Accession P05112

**Synonyms** Interleukin-4; IL-4; B-Cell Stimulatory Factor 1; BSF-1;

Binetrakin; Lymphocyte Stimulatory Factor 1;

Pitrakinra; IL4

Mol Mass 15.1 KDa

**AP Mol Mass** 13-14 KDa, reducing conditions

**Purity** Greater than 95% as determined by reducing

SDS-PAGE.

**Endotoxin** Less than 0.001 ng/ $\mu$ g (0.01 EU/ $\mu$ g) as determined by

LAL test.

**FORMULATION** Lyophilized from a 0.2 µm filtered solution of 20mM

Tris-HCl, 150mM NaCl, pH 7.2.

**RECONSTITUTION** Always centrifuge tubes before opening. Do not mix by



+86-27-59760950 ELKbio@ELKbiotech.com

www.elkbiotech.com



vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**SHIPPING** 

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

**STORAGE** 

Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

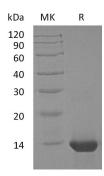
**BACKGROUND** 

Interleukin-4 (IL-4) is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. IL-4 is produced by mast cells, T cells, and bone marrow stromal cells. IL-4 regulates the differentiation of naive CD4+ T cells into helper Th2 cells, characterized by their cytokine-secretion profile that includes secretion





of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergic response.



**SDS-PAGE** 

